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	Application No.	Applicant(s)	
Notice of Allowability	10/053,201	ROSENBERG ET AL	
	Examiner	Art Unit	
	PHUC T DANG	2818	,
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 1. ☑ This communication is responsive to <u>Preliminary Amendra</u> 2. ☑ The allowed claim(s) is/are <u>31-53 (renumbered as in new</u> 3. ☑ The drawings filed on <u>15 January 2002</u> are accepted by the	S (OR REMAINS) CLOSED in the state of the second of the se	n this application. If not included unication will be mailed in due c subject to withdrawal from issue	d ourse. THIS
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) c	or (f).	
 Certified copies of the priority documents have 	ve been received.		
Certified copies of the priority documents have	ve been received in Applicati	on No	
3. Copies of the certified copies of the priority d International Bureau (PCT Rule 17.2(a)).	ocuments have been receive	ed in this national stage applicati	on from the
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority (a) The translation of the foreign language provisional 6. Acknowledgment is made of a claim for domestic priority	application has been receive	ed.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of			
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gives rea 			OTICE OF
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspering 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing (c) including changes required by the attached Examine 	g correction filed, wh	ich has been approved by the Ex	
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should be written on	the drawings in the front (not the I	oack) of
9. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT FOR			ote the
Attachment(s)		·	
 1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5⊠ Information Disclosure Statements (PTO-1449), Paper No. 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Intervie <u>0803</u> . 6☐ Examin	of Informal Patent Application (P w Summary (PTO-413), Paper N er's Amendment/Comment er's Statement of Reasons for A	No
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DETAILED ACTION

Examiner's Statement of Reasons for Allowance

1. Claims 31-53 are allowed.

Claims 31-53 are renumbered as in new claims 1-23.

2. The following is an examiner's statement of reasons for allowance:

Claims 31-32 are allowable over the prior art for at least the reason that the prior art of record, taken alone or in combination, fails to teach or reasonably suggests a layer comprising high purity tantalum, less than about 500 ppm, by weight, total metallic impurities, and less than about 50 ppm, by weight, tungsten or molybdenum.

Claims 33-34 are allowable over the prior art for at least the reason that the prior art of record, taken alone or in combination, fails to teach or reasonably suggests a capacitor comprising high purity tantalum comprising tantalum, less than about 500 ppm, by weight, total metallic impurities, and less than about 50 ppm, by weight, tungsten or molybdenum.

Claims 35-39, 42, 45-46 and 51 are allowable over the prior art for at least the reason that the prior art of record, taken alone or in combination, fails to teach or reasonably suggests a sputtering target blank comprising tantalum, less than about 500 ppm by weight (ppmw) total metallic impurities, less than or equal to 50 ppmw molybdenum or tungsten, and less than about 100 ppmw oxygen.

Claims 40, 43, 47-48 and 52 are allowable over the prior art for at least the reason that the prior art of record, taken alone or in combination, fails to teach or reasonably suggests a sputtering target blank comprising tantalum, less than 500 ppmw total metallic impurities, less

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than 5 ppmw total of molybdenum or tungsten, less than about 100 ppmw oxygen, and less than or equal to 10 ppbw each of uranium and thorium.

Claims 41, 44, 49-50 and 53 are allowable over the prior art for at least the reason that the prior art of record, taken alone or in combination, fails to teach or reasonably suggests a sputtering target blank comprising tantalum, less than 500 ppm by weight (ppmw) total metallic impurities, less than 2 ppmw total of molybdenum or tungsten, and less than 25 ppmw oxygen.

- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuc T. Dang whose telephone number is (571) 272-1776. The examiner can normally be reached on 8:00 am-5:00 pm.
- 4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9306 for After Final communications.
- 5. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Langhow

Phuc T. Dang

PD

Primary Examiner

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January 30, 2004